

Industrial Process Furnace and Oven Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333994, Industrial process furnace and oven manufacturing	2002..	328	354	11 571	474 488	6 677	13 085	205 475	935 181	690 101	1 634 967	'37 182
	2001..	N	N	15 294	622 605	9 089	17 593	265 904	1 116 749	1 077 508	2 267 022	47 499
	2000..	N	N	16 345	632 925	10 026	20 140	289 060	1 330 538	1 249 553	2 595 299	74 671
	1999..	N	N	16 834	624 847	9 813	20 420	287 059	1 212 480	1 159 541	2 413 765	100 501
	1998..	N	N	17 929	670 345	11 061	24 626	325 798	1 439 927	1 324 851	2 685 900	46 774
	1997..	378	404	17 575	657 327	10 313	23 295	288 549	1 514 761	1 365 736	2 869 912	65 381

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333994, Industrial process furnace and oven manufacturing												
United States	2	354	143	11 571	474 488	6 677	13 085	205 475	935 181	690 101	1 634 967	'37 182
California	2	35	10	639	26 925	392	762	11 793	53 888	35 530	91 605	'1 956
Connecticut	3	6	1	110	3 399	66	118	1 401	5 691	5 943	11 633	'92
Illinois	1	20	10	1 022	41 711	621	1 282	20 027	111 213	64 316	172 503	'3 550
Indiana	5	14	6	422	17 272	247	495	6 965	37 933	25 788	62 411	'937
Massachusetts	1	16	6	604	25 823	338	522	10 547	40 117	23 709	64 986	'463
Michigan	2	34	13	948	41 312	591	1 198	19 583	77 721	61 688	143 157	'6 192
Minnesota	2	7	3	282	17 458	102	203	3 997	20 150	17 983	39 245	'778
Missouri	—	11	9	1 142	38 001	674	1 326	17 676	80 290	31 825	113 361	'2 139
New Jersey	1	19	10	723	34 069	330	561	12 662	73 861	63 779	136 549	'1 022
Oklahoma	7	7	4	278	12 393	194	396	6 847	16 979	17 661	38 098	'870
Texas	2	16	5	321	9 887	226	376	5 701	20 120	13 281	32 799	'908

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333994, Industrial process furnace and oven manufacturing	
Companies ¹	number.. 328
All establishments ²	number.. 354
Establishments with 1 to 19 employees	number.. 211
Establishments with 20 to 99 employees	number.. 115
Establishments with 100 employees or more	number.. 28
All employees ³	number.. 11 571
Total compensation	\$1,000.. 578 694
Annual payroll	\$1,000.. 474 488
Total fringe benefits	\$1,000.. 104 206
Production workers, average for year	number.. 6 677
Production workers on March 12	number.. 6 826
Production workers on May 12	number.. 6 651
Production workers on August 12	number.. 6 666
Production workers on November 12	number.. 6 543
Production worker hours	1,000.. 13 085
Production worker wages	\$1,000.. 205 475
Total cost of materials	\$1,000.. 690 101
Materials, parts, containers, packaging, etc., used	\$1,000.. 573 668
Resales	\$1,000.. 75 918
Purchased fuels	\$1,000.. 3 657
Purchased electricity	\$1,000.. 11 720
Contract work	\$1,000.. 25 138
Quantity of electricity purchased for heat and power	1,000 kWh.. 174 184
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 1 634 967
Primary products value of shipments	\$1,000.. 1 403 977
Secondary products value of shipments	\$1,000.. 80 867
Total miscellaneous receipts	\$1,000.. 150 123
Value of resales	\$1,000.. 112 217
Contract receipts	\$1,000.. 22 901
Other miscellaneous receipts	\$1,000.. 15 005
Primary products specialization ratio	percent.. 95
Value of primary products shipments made in all industries	\$1,000.. 1 512 249
Value of primary products shipments made in this industry	\$1,000.. 1 403 977
Value of primary products shipments made in other industries	\$1,000.. 108 272
Coverage ratio	percent.. 93
Value added	\$1,000.. 935 181
Total inventories, beginning of year	\$1,000.. 292 983
Finished goods inventories	\$1,000.. 47 565
Work-in-process inventories	\$1,000.. 94 601
Materials and supplies inventories	\$1,000.. 150 817
Total inventories, end of year	\$1,000.. 251 438
Finished goods inventories	\$1,000.. 44 551
Work-in-process inventories	\$1,000.. 87 930
Materials and supplies inventories	\$1,000.. 118 957
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '579 131
Total capital expenditures (new and used)	\$1,000.. '37 182
Buildings and other structures (new and used)	\$1,000.. '7 870
Machinery and equipment (new and used)	\$1,000.. '29 310
Automobiles, trucks, etc., for highway use	\$1,000.. '1 756
Computers and peripheral data processing equipment	\$1,000.. '4 542
All other expenditures for machinery and equipment	\$1,000.. '23 012
Total retirements	\$1,000.. '46 554
Gross value of depreciable assets at end of year	\$1,000.. '569 759
Depreciation charges during year	\$1,000.. '35 652
Total rental payments	\$1,000.. 29 926
Buildings and other structures	\$1,000.. 22 426
Machinery and equipment	\$1,000.. 7 500
Total other expenses ⁴	\$1,000.. 167 060
Response coverage ratio ⁵	percent.. 85
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 7 357
Communications services ⁴	\$1,000.. 6 058
Legal services ⁴	\$1,000.. 5 049
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 552
Advertising and promotional services ⁴	\$1,000.. 10 760
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 3 671
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 1 939
Management consulting and administrative services ⁴	\$1,000.. 5 307
Taxes and license fees ⁴	\$1,000.. 7 814
All other expenses ⁴	\$1,000.. 116 554

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333994, Industrial process furnace and oven manufacturing											
All establishments	2	354	11 571	474 488	6 677	13 085	205 475	935 181	690 101	1 634 967	'37 182
Establishments with—											
1 to 4 employees	9	88	197	7 862	120	208	3 345	11 236	14 258	29 397	'514
5 to 9 employees	6	55	386	17 862	223	435	7 207	36 715	30 886	67 387	'1 166
10 to 19 employees	2	68	905	39 627	500	935	17 301	82 041	64 899	148 695	'1 920
20 to 49 employees	2	70	2 268	96 374	1 336	2 691	43 492	186 729	147 694	333 494	'6 620
50 to 99 employees	1	45	3 057	128 797	1 725	3 452	52 963	287 601	211 020	501 495	'11 526
100 to 249 employees	1	24	3 408	142 669	1 814	3 517	57 322	233 593	192 605	429 071	'13 076
250 to 499 employees	—	4	1 350	41 297	959	1 847	23 845	97 266	28 739	125 428	2 360
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	125	486	20 958	291	559	8 807	40 929	37 083	78 014	'1 455

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333994	Industrial process furnace and oven manufacturing	354	11 571	474 488	6 677	13 085	205 475	935 181	690 101	1 634 967	'37 182
3339940	Industrial furnaces and ovens, and electric industrial heating equipment	354	11 571	474 488	6 677	13 085	205 475	935 181	690 101	1 634 967	'37 182

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333994	Industrial process furnace and oven manufacturing	2002.. N 1997.. N	X X	X X	1 512 249 2 861 613
3339940	Industrial furnaces and ovens, and electric industrial heating equipment	2002.. N 1997.. N	X X	X X	1 512 249 2 861 613
33399401	Fuel-fired industrial process furnaces, ovens, and kilns	2002.. N 1997.. N	X X	X X	377 594 589 647
3339940103	Fuel-fired industrial metal processing and heat treating furnaces (including annealing, hardening, carburizing, and porcelain enameling furnaces), except parts and attachments	2002.. 51 1997.. 61	X X	X X	247 474 289 129
3339940106	Fuel-fired metal processing and heat treating furnaces, ovens, and kilns for the melting, roasting, and all other heat treatment of ores, pyrites, or metals, except parts and attachments	2002.. 21 1997.. 25	X X	X X	52 780 60 253
3339940109	All other miscellaneous fuel-fired industrial furnaces, ovens, and kilns	2002.. 34 1997.. 42	X X	X X	77 340 240 265
33399402	Parts and attachments for industrial fuel-fired furnaces, ovens, and kilns	2002.. N 1997.. N	X X	X X	109 357 75 470
3339940214	Parts and attachments for industrial fuel-fired furnaces, ovens, and kilns	2002.. 46 1997.. 48	X X	X X	109 357 75 470
33399403	High-frequency induction and dielectric heating equipment, including furnaces, ovens, and kilns (except parts and attachments)	2002.. N 1997.. N	X X	X X	167 508 209 880
3339940323	High-frequency induction and dielectric heating equipment, including furnaces, ovens, and kilns (except parts and attachments)	2002.. 28 1997.. 33	X X	X X	167 508 209 880
33399404	Electric resistance-heated furnaces, ovens, and kilns (except parts and attachments)	2002.. N 1997.. N	X X	X X	113 488 246 968
3339940429	Electric resistance-heated metal processing and heat treating furnaces for annealing, hardening, carburizing, and porcelain enameling (except parts and attachments)	2002.. 36 1997.. 56	X X	X X	58 506 167 902
3339940431	Electric resistance-heated furnaces, ovens, and kilns, except for metal processing and heat treating (except parts and attachments)	2002.. 20 1997.. 30	X X	X X	54 982 79 066
33399405	Electric (except high-frequency induction and dielectric and resistance-heated) metal processing and heat treating furnaces (except parts and attachments)	2002.. N 1997.. N	X X	X X	31 863 184 371
3339940535	Electric (except high-frequency induction and dielectric and resistance-heated) metal processing and heat treating furnaces (except parts and attachments)	2002.. 14 1997.. 23	X X	X X	31 863 184 371
33399406	Other electric industrial furnaces, ovens, and kilns (complete units)	2002.. N 1997.. N	X X	X X	104 942 546 983
3339940639	Electric (except high-frequency induction and dielectric and resistance-heated) furnaces and ovens for diffusion, oxidation, and annealing of semiconductor wafers (except parts and attachments)	2002.. 12 1997.. 29	X X	X X	20 317 267 271
3339940653	All other miscellaneous electric industrial furnaces, ovens, and kilns (except parts)	2002.. 29 1997.. 43	X X	X X	84 625 279 712
33399407	Parts and attachments for electric industrial furnaces, ovens, and kilns, including high-frequency induction and dielectric heating equipment	2002.. N 1997.. N	X X	X X	92 121 114 498
3339940759	Parts and attachments for electric industrial furnaces, ovens, and kilns, including high-frequency induction and dielectric heating equipment	2002.. 50 1997.. 71	X X	X X	92 121 114 498
33399408	Other electrical heating equipment for industrial use, except parts and attachments for soldering irons	2002.. N 1997.. N	X X	X X	267 375 520 608
3339940871	Industrial electric tubular heaters	2002.. 19 1997.. 30	X X	X X	99 653 109 758
3339940875	All other miscellaneous electrical heating equipment for industrial use, except parts and attachments and soldering irons	2002.. 24 1997.. 53	X X	X X	167 722 410 850
33399409	Parts and attachments for electric industrial tubular heaters and all other miscellaneous electrical heating equipment for industrial use	2002.. N 1997.. N	X X	X X	86 285 72 560
3339940979	Parts and attachments for electric industrial tubular heaters and all other miscellaneous electrical heating equipment for industrial use	2002.. 24 1997.. 35	X X	X X	86 285 72 560
3339940Y	Industrial furnaces and ovens, and electric industrial heating equipment, nsk, total	2002.. N 1997.. N	X X	X X	161 716 300 628
3339940YWW	Industrial furnaces and ovens, and electric industrial heating equipment, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	90 943 258 301
3339940YWY	Industrial furnaces and ovens, and electric industrial heating equipment, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	70 773 42 327

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333994	Industrial process furnace and oven manufacturing		
00900001	Total materials .....2002..	X	573 668
	.....1997..	X	1 180 320
00190090	Fluid power products .....2002..	X	19 663
	.....1997..	X	102 779
33200005	Fabricated metal products, including forgings .....2002..	X	45 871
	.....1997..	X	141 752
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	14 588
	.....1997..	X	14 134
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	6 226
	.....1997..	X	17 548
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	15 663
	.....1997..	X	47 977
33120016	Steel sheet and strip (including tinplate) .....2002..	X	13 128
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	10 051
	.....1997..	X	28 887
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	11 871
	.....1997..	X	28 768
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 193
	.....1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	42 786
	.....1997..	X	151 769
33399400	Electric heating elements for industrial furnaces, ovens, and kilns .....2002..	X	37 987
	.....1997..	X	38 858
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	122 626
	.....1997..	X	452 590
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	231 015
	.....1997..	X	155 258

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.